METRATECH
Méthodes-Transfers-Technologies

Road, aeronautic and port infrastructures

Link to the ENPC international seminars

IT technologies for road management

30th of November to 11th of December 2015
5 700 € Ex VAT Lunches included
56015

École des Ponts
ParisTech

labellisé

PONTS FORMATION CONSEIL
Vecteur de performance

This ten days cycle approaches all the problems related to the installation of an information system for the road management. It refers in particular to :
- Release the main concepts of the computerization in road activities
- Deal with the technical aspects and contribution of new technologies
- Propose a pragmatic path to help the manager to formalize his needs and to conceive a viable information system

By the end of the seminar, the participants are going to be able to :
- know the characteristics and conditions to use the various tools
- specify their needs according to their needs according to their specific context

This seminar takes place in Maison des Ponts 15 rue de la Fontaine au Roi 75011 Paris

Targeted audience

Decision makers having to deal with their country in road management, and utilize or create the specifications for the data-processing tools

Organization
Virginie Pac
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Coordination
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Inscriptions
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Monday, 30th of November

■ 9h30   **J-Olivier LAVAL** *PFC-Metratech*

Opening of the seminar

■ 10h00   **Olivier GLEIZES** *CETE Méditerranée*

Road network and representation in road network
- Identification of road networks in France
- Construction and update of a reference frame for localization
- Localization modes of data road

Tuesday, 1st of December

■ 9h30 **Olivier GLEIZES**

Road data utilization
- Basis management : creation of data catalogue
- Maps, diagrams and schemes production
- Practical cases with different hardware : ROUTEN, SILLAGE, CARTEN

Wednesday, 2nd of December

■ 9h30 **Eric DELAHAYE** *Dir Nord*

Road structures computerized management
- Road structures evaluation
- Maintenance policy choice and works programming
- Illustration with the AGORA software

Thursday, 3rd of December

■ 9h30 **Philippe LEPERT** *IFSTTAR*

Road date collecting
- Principles, methods and uses
- Data base constitution and management on the automatic collection

Friday, 4th of December

■ 9h30 **Philippe LEPERT**

Road maintenance management

- Evaluation methods and assistance to the maintenance work programming

Monday, 7th of December

■ 9h30 **Philippe LEPERT**
- Illustration with GIRR, French software for technical network
- Analysis of maintenance strategies, illustration with HDM

Tuesday, 8th of December

■ 9h30 **Pierre JOUBERT** *Consultant*

Presentation of the HDM-IV model
- Introduction
-Bituminous roads deterioration
- Vehicle operating cost
- Practical case n°1 : strategy analysis
- Practical case n°2 : project analysis
- Diffusion and assistance methods

Wednesday, 9th of December

■ 9h30 **Joël PALFART** *Consultant*

Road information systems (RIS)
- Objectives
- Road data localization
- Road data modelling
- Road data management and its reuses
- Road data exchanges

Thursday, 10th of December

9h30   **Joël PALFART**
- RIS components
- Localization reference source and its management
- Road database management system
- Database automatic acquisition
- RIS conception

Friday, 11th of December

■ 9h30 **Joël PALFART**
- Geographic Information systems (GIS)
- Global positioning system (GPS)
- Dynamic cartography on the internet
- Technical and functional architecture
- Different software for reference source and road database management
- Conception project and its implementation

■ 16h00 **Jean-Olivier LAVAL**

Evaluations and closing of the seminar

Workdays end at 5:30 pm